


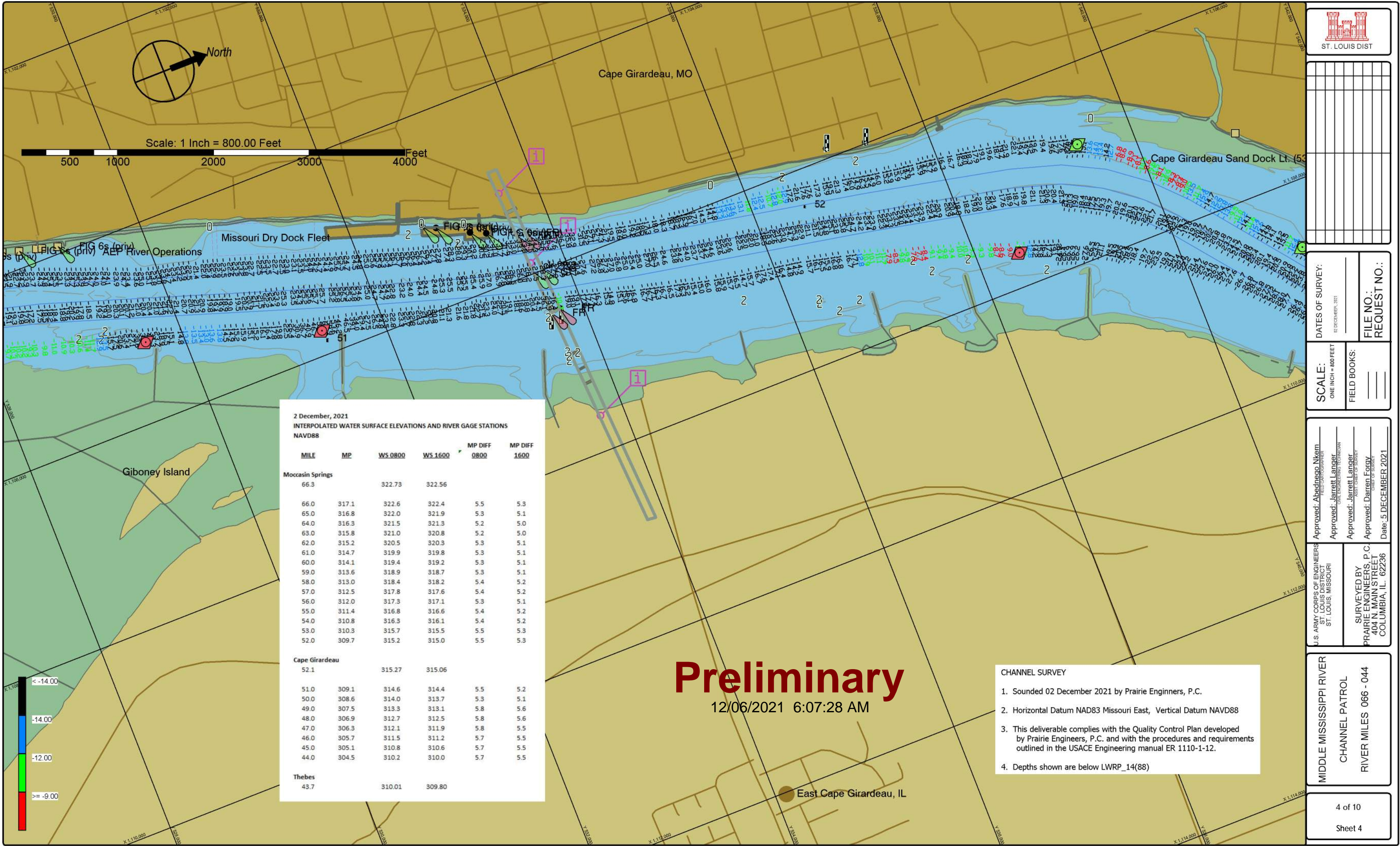
Preliminary
12/06/2021 6:07:50 AM

- CHANNEL SURVEY
1. Sounded 02 December 2021 by Prairie Enginners, P.C.
 2. Horizontal Datum NAD83 Missouri East, Vertical Datum NAVD88
 3. This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-1-12.
 4. Depths shown are below LWRP_14(88)



ST. LOUIS DIST


DATES OF SURVEY:		FILE NO.:	REQUEST NO.:
01 DECEMBER, 2021			
SCALE:	ONE INCH = 800 FEET	FIELD BOOKS:	
APPROVED: Aledhago Nkomo CHIEF OF SURVEY		APPROVED: Jarrett Langer CHIEF OF SURVEY	
U.S. ARMY CORPS OF ENGINEERS ST. LOUIS DISTRICT ST. LOUIS, MISSOURI		SURVEYED BY PRAIRIE ENGINEERS, P.C. 404 N. MAIN STREET COLUMBIA, IL 62236	
MIDDLE MISSISSIPPI RIVER CHANNEL PATROL RIVER MILES 066 - 044			
1 of 10 Sheet 1			



2 December, 2021 INTERPOLATED WATER SURFACE ELEVATIONS AND RIVER GAGE STATIONS NAVD88					
MILE	MP	WS 0800	WS 1600	MP DIFF 0800	MP DIFF 1600
Moccasin Springs					
66.3		322.73	322.56		
66.0	317.1	322.6	322.4	5.5	5.3
65.0	316.8	322.0	321.9	5.3	5.1
64.0	316.3	321.5	321.3	5.2	5.0
63.0	315.8	321.0	320.8	5.2	5.0
62.0	315.2	320.5	320.3	5.3	5.1
61.0	314.7	319.9	319.8	5.3	5.1
60.0	314.1	319.4	319.2	5.3	5.1
59.0	313.6	318.9	318.7	5.3	5.1
58.0	313.0	318.4	318.2	5.4	5.2
57.0	312.5	317.8	317.6	5.4	5.2
56.0	312.0	317.3	317.1	5.3	5.1
55.0	311.4	316.8	316.6	5.4	5.2
54.0	310.8	316.3	316.1	5.4	5.2
53.0	310.3	315.7	315.5	5.5	5.3
52.0	309.7	315.2	315.0	5.5	5.3
Cape Girardeau					
52.1		315.27	315.06		
51.0	309.1	314.6	314.4	5.5	5.2
50.0	308.6	314.0	313.7	5.3	5.1
49.0	307.5	313.3	313.1	5.8	5.6
48.0	306.9	312.7	312.5	5.8	5.6
47.0	306.3	312.1	311.9	5.8	5.5
46.0	305.7	311.5	311.2	5.7	5.5
45.0	305.1	310.8	310.6	5.7	5.5
44.0	304.5	310.2	310.0	5.7	5.5
Thebes					
43.7		310.01	309.80		

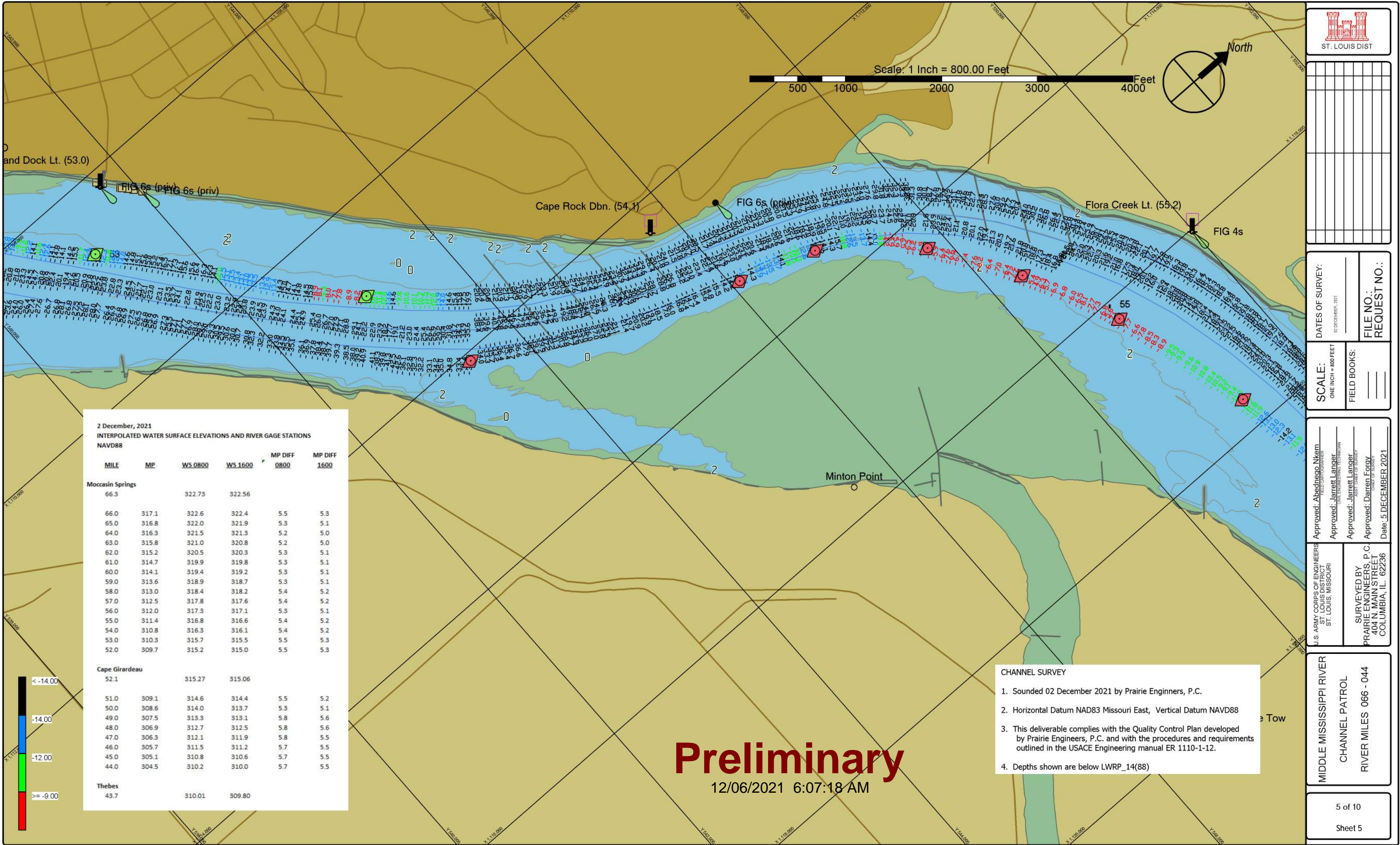
Preliminary
12/06/2021 6:07:28 AM

- CHANNEL SURVEY
- Sounded 02 December 2021 by Prairie Enginners, P.C.
 - Horizontal Datum NAD83 Missouri East, Vertical Datum NAVD88
 - This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-1-12.
 - Depths shown are below LWRP_14(88)



ST. LOUIS DIST

DATES OF SURVEY: 02 DECEMBER, 2021		FILE NO.: REQUEST NO.:
SCALE: ONE INCH = 800 FEET	FIELD BOOKS:	
Approved: Aledhago Nkem CHIEF OF SURVEY		U.S. ARMY CORPS OF ENGINEERS ST. LOUIS DISTRICT ST. LOUIS, MISSOURI
Approved: Jarrett Langer CHIEF OF SURVEY		
Approved: Jarrett Langer CHIEF OF SURVEY		SURVEYED BY PRAIRIE ENGINEERS, P.C. 404 N. MAIN STREET COLUMBIA, IL 62236
Approved: Darren Forcy CHIEF OF SURVEY		
MIDDLE MISSISSIPPI RIVER CHANNEL PATROL RIVER MILES 066 - 044		
4 of 10 Sheet 4		




2 December, 2021
INTERPOLATED WATER SURFACE ELEVATIONS AND RIVER GAGE STATIONS
NAVD88

MILE	MP	WS 0800	WS 1600	MP DIFF 0800	MP DIFF 1600
Moccasin Springs					
66.3		322.73	322.56		
66.0	317.1	322.6	322.4	5.5	5.3
65.0	316.8	322.0	321.9	5.3	5.1
64.0	316.3	321.5	321.3	5.2	5.0
63.0	315.8	321.0	320.8	5.2	5.0
62.0	315.2	320.5	320.3	5.3	5.1
61.0	314.7	319.9	319.8	5.3	5.1
60.0	314.1	319.4	319.2	5.3	5.1
59.0	313.6	318.9	318.7	5.3	5.1
58.0	313.0	318.4	318.2	5.4	5.2
57.0	312.5	317.8	317.6	5.4	5.2
56.0	312.0	317.3	317.1	5.3	5.1
55.0	311.4	316.8	316.6	5.4	5.2
54.0	310.8	316.3	316.1	5.4	5.2
53.0	310.3	315.7	315.5	5.5	5.3
52.0	309.7	315.2	315.0	5.5	5.3
Cape Girardeau					
52.1		315.27	315.06		
51.0	309.1	314.6	314.4	5.5	5.2
50.0	308.6	314.0	313.7	5.3	5.1
49.0	307.5	313.3	313.1	5.8	5.6
48.0	306.9	312.7	312.5	5.8	5.6
47.0	306.3	312.1	311.9	5.8	5.5
46.0	305.7	311.5	311.2	5.7	5.5
45.0	305.1	310.8	310.6	5.7	5.5
44.0	304.5	310.2	310.0	5.7	5.5
Thebes					
43.7		310.01	309.80		

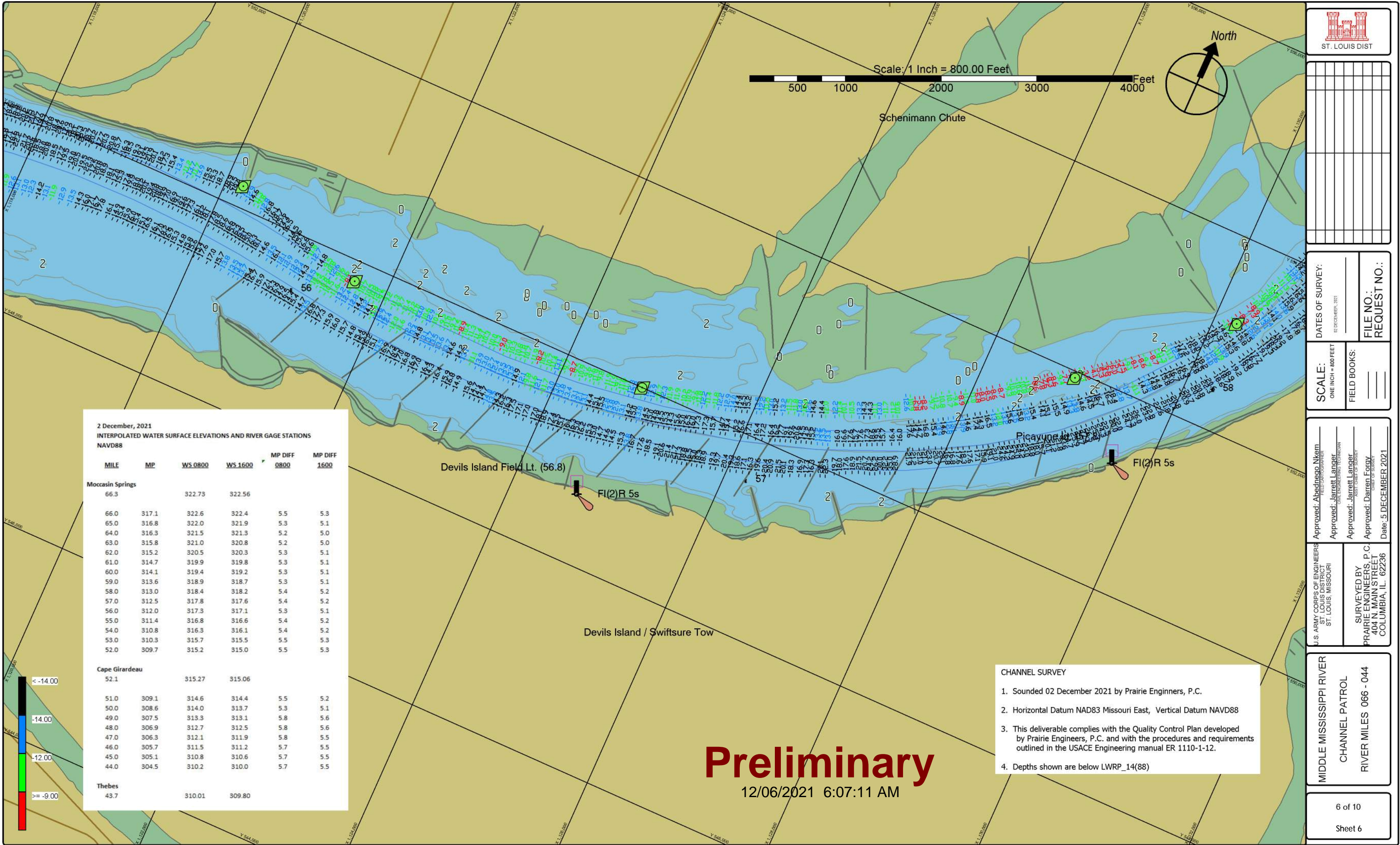
Preliminary
12/06/2021 6:07:18 AM

- CHANNEL SURVEY
1. Sounded 02 December 2021 by Prairie Enginners, P.C.
 2. Horizontal Datum NAD83 Missouri East, Vertical Datum NAVD88
 3. This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-1-12.
 4. Depths shown are below LWRP_14(88)



ST. LOUIS DIST

DATES OF SURVEY: BY DECEMBER, 2021		FILE NO.: REQUEST NO.:
SCALE: ONE INCH = 800 FEET	FIELD BOOKS:	
Approved: Aledhago Nkem CHIEF OF SURVEY		U.S. ARMY CORPS OF ENGINEERS ST. LOUIS DISTRICT ST. LOUIS, MISSOURI
Approved: Jarrett Langer CHIEF OF SURVEY		
Approved: Jarrett Langer CHIEF OF SURVEY		SURVEYED BY PRAIRIE ENGINEERS, P.C. 404 N. MAIN STREET COLUMBIA, IL 62236
Approved: Darren Forcy CHIEF OF SURVEY		
Date: 5 DECEMBER 2021		MIDDLE MISSISSIPPI RIVER CHANNEL PATROL RIVER MILES 066 - 044
5 of 10		Sheet 5




2 December, 2021 INTERPOLATED WATER SURFACE ELEVATIONS AND RIVER GAGE STATIONS NAVD88					
MILE	MP	WS 0800	WS 1600	MP DIFF 0800	MP DIFF 1600
Moccasin Springs					
66.3		322.73	322.56		
66.0	317.1	322.6	322.4	5.5	5.3
65.0	316.8	322.0	321.9	5.3	5.1
64.0	316.3	321.5	321.3	5.2	5.0
63.0	315.8	321.0	320.8	5.2	5.0
62.0	315.2	320.5	320.3	5.3	5.1
61.0	314.7	319.9	319.8	5.3	5.1
60.0	314.1	319.4	319.2	5.3	5.1
59.0	313.6	318.9	318.7	5.3	5.1
58.0	313.0	318.4	318.2	5.4	5.2
57.0	312.5	317.8	317.6	5.4	5.2
56.0	312.0	317.3	317.1	5.3	5.1
55.0	311.4	316.8	316.6	5.4	5.2
54.0	310.8	316.3	316.1	5.4	5.2
53.0	310.3	315.7	315.5	5.5	5.3
52.0	309.7	315.2	315.0	5.5	5.3
Cape Girardeau					
52.1		315.27	315.06		
51.0	309.1	314.6	314.4	5.5	5.2
50.0	308.6	314.0	313.7	5.3	5.1
49.0	307.5	313.3	313.1	5.8	5.6
48.0	306.9	312.7	312.5	5.8	5.6
47.0	306.3	312.1	311.9	5.8	5.5
46.0	305.7	311.5	311.2	5.7	5.5
45.0	305.1	310.8	310.6	5.7	5.5
44.0	304.5	310.2	310.0	5.7	5.5
Thebes					
43.7		310.01	309.80		

Preliminary

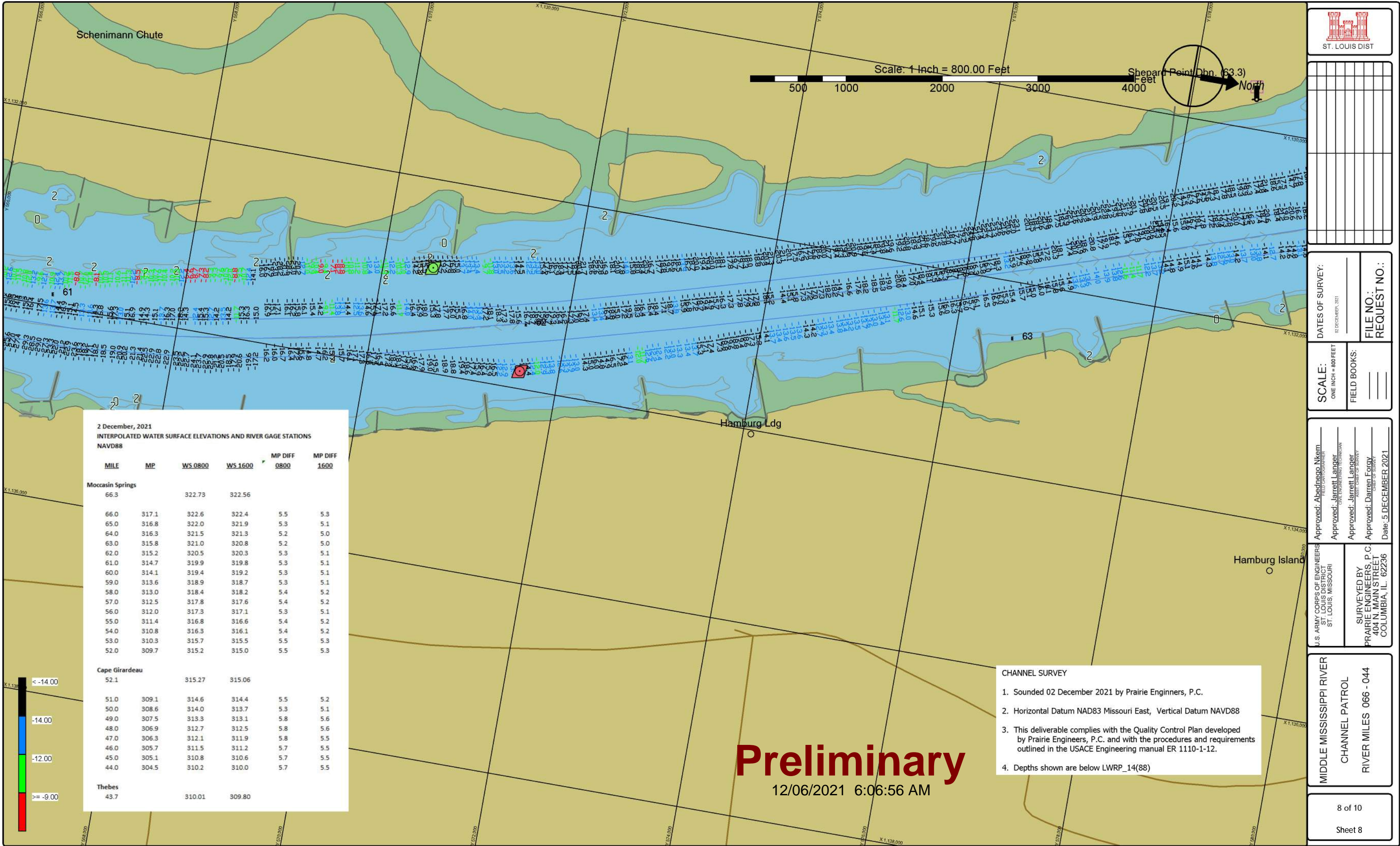
12/06/2021 6:07:11 AM

- CHANNEL SURVEY
1. Sounded 02 December 2021 by Prairie Enginners, P.C.
 2. Horizontal Datum NAD83 Missouri East, Vertical Datum NAVD88
 3. This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-1-12.
 4. Depths shown are below LWRP_14(88)



ST. LOUIS DIST


DATES OF SURVEY: 02 DECEMBER, 2021		FILE NO.: REQUEST NO.:
SCALE: ONE INCH = 800 FEET	FIELD BOOKS:	
Approved: Aledhogo Nkomo CHIEF OF SURVEY		
Approved: Jarrett Langer CIVIL ENGINEERING TESTIMONIAL		
Approved: Jarrett Langer CHIEF OF SURVEY		
Approved: Darren Forry CHIEF OF SURVEY		
Date: 5 DECEMBER 2021		
U.S. ARMY CORPS OF ENGINEERS ST. LOUIS DISTRICT ST. LOUIS, MISSOURI		
SURVEYED BY PRAIRIE ENGINEERS, P.C. 404 N. MAIN STREET COLUMBIA, IL 62236		
MIDDLE MISSISSIPPI RIVER CHANNEL PATROL RIVER MILES 066 - 044		
6 of 10 Sheet 6		



2 December, 2021 INTERPOLATED WATER SURFACE ELEVATIONS AND RIVER GAGE STATIONS NAVD88					
MILE	MP	WS 0800	WS 1600	MP DIFF 0800	MP DIFF 1600
Moccasin Springs					
66.3		322.73	322.56		
66.0	317.1	322.6	322.4	5.5	5.3
65.0	316.8	322.0	321.9	5.3	5.1
64.0	316.3	321.5	321.3	5.2	5.0
63.0	315.8	321.0	320.8	5.2	5.0
62.0	315.2	320.5	320.3	5.3	5.1
61.0	314.7	319.9	319.8	5.3	5.1
60.0	314.1	319.4	319.2	5.3	5.1
59.0	313.6	318.9	318.7	5.3	5.1
58.0	313.0	318.4	318.2	5.4	5.2
57.0	312.5	317.8	317.6	5.4	5.2
56.0	312.0	317.3	317.1	5.3	5.1
55.0	311.4	316.8	316.6	5.4	5.2
54.0	310.8	316.3	316.1	5.4	5.2
53.0	310.3	315.7	315.5	5.5	5.3
52.0	309.7	315.2	315.0	5.5	5.3
Cape Girardeau					
52.1		315.27	315.06		
51.0	309.1	314.6	314.4	5.5	5.2
50.0	308.6	314.0	313.7	5.3	5.1
49.0	307.5	313.3	313.1	5.8	5.6
48.0	306.9	312.7	312.5	5.8	5.6
47.0	306.3	312.1	311.9	5.8	5.5
46.0	305.7	311.5	311.2	5.7	5.5
45.0	305.1	310.8	310.6	5.7	5.5
44.0	304.5	310.2	310.0	5.7	5.5
Thebes					
43.7		310.01	309.80		

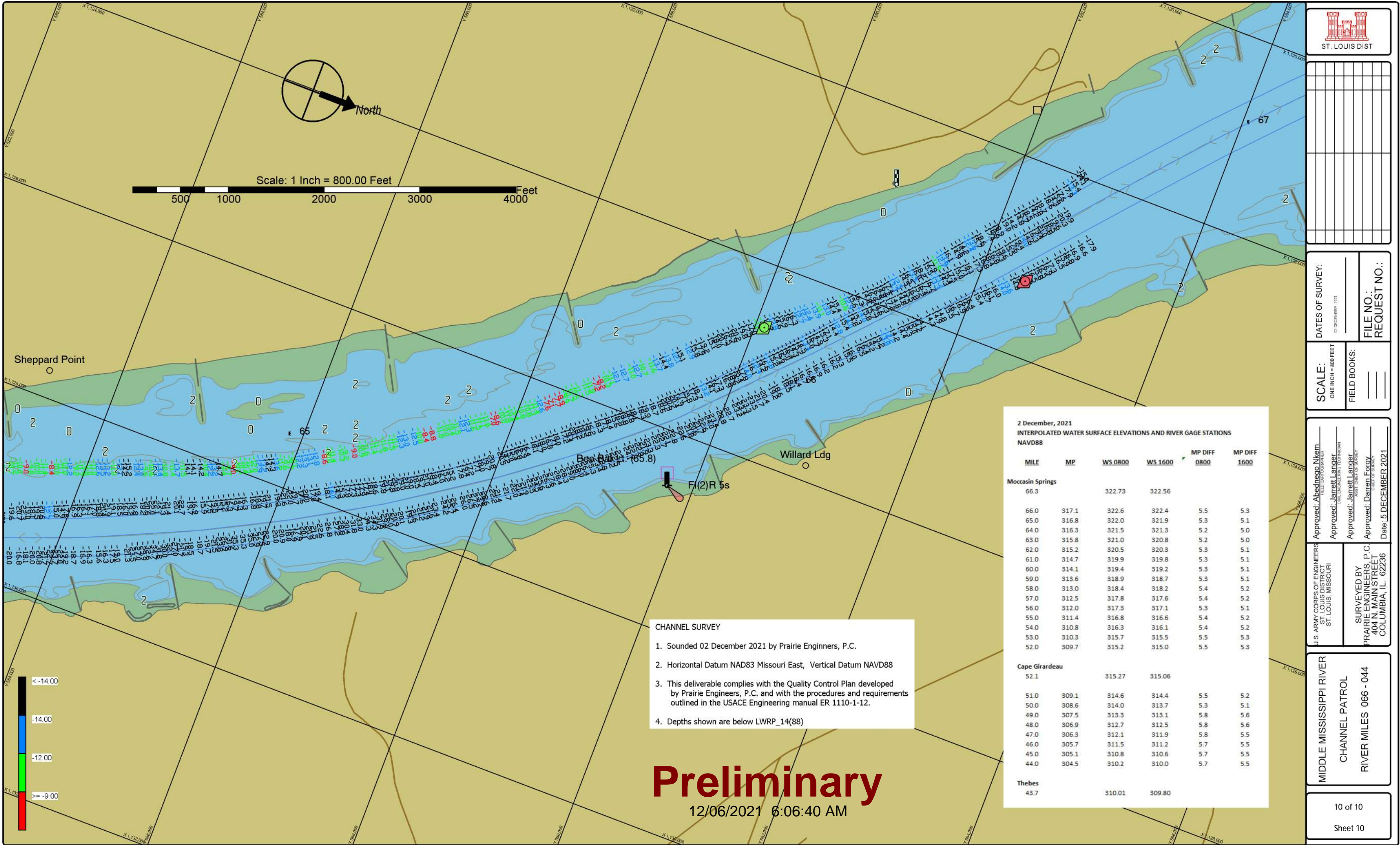
Preliminary
12/06/2021 6:06:56 AM

- CHANNEL SURVEY
- Sounded 02 December 2021 by Prairie Enginners, P.C.
 - Horizontal Datum NAD83 Missouri East, Vertical Datum NAVD88
 - This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-1-12.
 - Depths shown are below LWRP_14(88)



ST. LOUIS DIST


DATES OF SURVEY: 01 DECEMBER, 2021		FILE NO.: REQUEST NO.:
SCALE: ONE INCH = 800 FEET		
FIELD BOOKS:		
Approved: Ahmedno Nkem CHIEF OF SURVEY		Approved: Jarrett Langer CHIEF OF SURVEY
Approved: Jarrett Langer CHIEF OF SURVEY		
Approved: Jarrett Langer CHIEF OF SURVEY		Approved: Darren Forcy CHIEF OF SURVEY
Approved: Darren Forcy CHIEF OF SURVEY		
Date: 5 DECEMBER 2021		
U.S. ARMY CORPS OF ENGINEERS ST. LOUIS DISTRICT ST. LOUIS, MISSOURI		SURVEYED BY PRAIRIE ENGINEERS, P.C. 404 N. MAIN STREET COLUMBIA, IL 62236
MIDDLE MISSISSIPPI RIVER CHANNEL PATROL		
RIVER MILES 066 - 044		
8 of 10		
Sheet 8		



- CHANNEL SURVEY
1. Sounded 02 December 2021 by Prairie Enginners, P.C.
 2. Horizontal Datum NAD83 Missouri East, Vertical Datum NAVD88
 3. This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-1-12.
 4. Depths shown are below LWRP_14(88)

Preliminary
12/06/2021 6:06:40 AM

2 December, 2021 INTERPOLATED WATER SURFACE ELEVATIONS AND RIVER GAGE STATIONS NAVD88					
MILE	MP	WS 0800	WS 1600	MP DIFF 0800	MP DIFF 1600
Moccasin Springs					
66.3		322.73	322.56		
66.0	317.1	322.6	322.4	5.5	5.3
65.0	316.8	322.0	321.9	5.3	5.1
64.0	316.3	321.5	321.3	5.2	5.0
63.0	315.8	321.0	320.8	5.2	5.0
62.0	315.2	320.5	320.3	5.3	5.1
61.0	314.7	319.9	319.8	5.3	5.1
60.0	314.1	319.4	319.2	5.3	5.1
59.0	313.6	318.9	318.7	5.3	5.1
58.0	313.0	318.4	318.2	5.4	5.2
57.0	312.5	317.8	317.6	5.4	5.2
56.0	312.0	317.3	317.1	5.3	5.1
55.0	311.4	316.8	316.6	5.4	5.2
54.0	310.8	316.3	316.1	5.4	5.2
53.0	310.3	315.7	315.5	5.5	5.3
52.0	309.7	315.2	315.0	5.5	5.3
Cape Girardeau					
52.1		315.27	315.06		
51.0	309.1	314.6	314.4	5.5	5.2
50.0	308.6	314.0	313.7	5.3	5.1
49.0	307.5	313.3	313.1	5.8	5.6
48.0	306.9	312.7	312.5	5.8	5.6
47.0	306.3	312.1	311.9	5.8	5.5
46.0	305.7	311.5	311.2	5.7	5.5
45.0	305.1	310.8	310.6	5.7	5.5
44.0	304.5	310.2	310.0	5.7	5.5
Thebes					
43.7		310.01	309.80		



ST. LOUIS DIST

DATES OF SURVEY: 02 DECEMBER, 2021	FILE NO.: REQUEST NO.:
SCALE: ONE INCH = 800 FEET	FIELD BOOKS:

Approved: Aledhago Nkem
CHIEF OF SURVEY

Approved: Jarrett Langer
CIVIL ENGINEERING TECHNICIAN

Approved: Jarrett Langer
ASST CHIEF OF SURVEY

Approved: Darren Forcy
CHIEF OF SURVEY

Date: 5 DECEMBER 2021

U.S. ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI

SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

MIDDLE MISSISSIPPI RIVER
CHANNEL PATROL
RIVER MILES 066 - 044

10 of 10
Sheet 10